

CLAIMS

What is claimed is:

- 1 1. A method, comprising:
 - 2 a) receiving a message from a remote device, said message comprising
 - 3 either a definition, a state change, a command or some combination
 - 4 thereof;
 - 5 b) processing said definition (if any) before said state change (if any); and
 - 6 c) processing said state change (if any) before processing said command (if
 - 7 any).
- 1 2. The method of claim 1 wherein said command (if any) further comprises an
- 2 express command.
- 1 3. The method of claim 2 wherein said express command corresponds to a
- 2 clicking a mouse button.
- 1 4. The method of claim 2 wherein said express command corresponds to
- 2 hitting an enter key.
- 1 5. The method of claim 2 wherein said express command corresponds to
- 2 selecting an option from a menu.

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- 1 6. The method of claim 1 wherein said command (if any) is an instruction
2 command.
- 1 7. The method of claim 6 wherein said instruction command corresponds to
2 getting a form.
- 1 8. The method of claim 1 wherein said state change (if any) corresponds to a
2 new value in a form.
- 1 9. The method of claim 1 wherein said definition (if any) corresponds to the
2 definition of a form.
- 1 10. The method of claim 1 wherein said processing said definition (if any)
2 further comprises updating a definition record associated with a GUI
3 understanding with said definition (if any).
- 1 11. The method of claim 1 wherein said processing said state change (if any)
2 further comprises updating a state record associated with a GUI
3 understanding with said state change (if any).

1 12. A method, comprising:
2 a) recognizing a dependence on a remote device; and
3 b) sending a message to said remote device, said message comprising
4 either a definition, a state change, a command or some combination
5 thereof.

1 13. The method of claim 12 wherein said command (if any) further comprises
2 an express command.

1 14. The method of claim 13 wherein said express command corresponds to a
2 clicking a mouse button.

1 15. The method of claim 13 wherein said express command corresponds to
2 hitting an enter key.

1 16. The method of claim 13 wherein said express command corresponds to
2 selecting an option from a menu.

1 17. The method of claim 12 wherein said command (if any) is an instruction
2 command.

1 18. The method of claim 17 wherein said instruction command corresponds to
2 getting a form.

1 19. The method of claim 12 wherein said state change (if any) corresponds to a
2 new value in a form.

1 20. The method of claim 12 wherein said definition (if any) corresponds to the
2 definition of a form.

1 21. The method of claim 12 further comprising updating a GUI understanding
2 by processing said definition (if any) before processing said state change (if
3 any).

1 22. The method of claim 21 wherein said processing said definition (if any)
2 further comprises updating a definition record associated with said GUI
3 understanding with said definition (if any).

1 23. The method of claim 21 wherein said processing said state change (if any)
2 further comprises updating a state record associated with said GUI
3 understanding with said state change (if any).

1 24. The method of claim 12 further comprising:
2 a) receiving an acknowledgement message from said remote device,
3 said acknowledgement message comprising either a second
4 definition, a second state change, a second command or some
5 combination thereof; and
6 b) processing said second definition (if any) before said second state
7 change (if any); and
8 c) processing said second state change (if any) before processing said
9 second command (if any).

1 25. The method of claim 24 further comprising translating said definition (if
2 any), said state change (if any) and said command (if any) to a GUI.

1 26. A device having a processor and a memory coupled to the processor, the
 2 memory having stored therein sequences of instructions which, when
 3 executed by the processor, cause the processor to perform the acts of:
 4 a) receiving a message from a remote device, said message comprising
 5 either a definition, a state change, a command or some combination
 6 thereof;
 7 b) processing said definition (if any) before said state change (if any);
 8 and
 9 c) processing said state change (if any) before processing said command
 10 (if any).

1 27. The device of claim 26 wherein said command (if any) further comprises an
 2 express command.

1 28. The device of claim 27 wherein said express command corresponds to a
 2 clicking a mouse button.

1 29. The device of claim 27 wherein said express command corresponds to
 2 hitting an enter key.

1 30. The device of claim 27 wherein said express command corresponds to
 2 selecting an option from a menu.

1 31. The device of claim 26 wherein said command (if any) is an instruction
2 command.

1 32. The device of claim 31 wherein said instruction command corresponds to
2 getting a form.

1 33. The device of claim 26 wherein said state change (if any) corresponds to a
2 new value in a form.

1 34. The device of claim 26 wherein said definition (if any) corresponds to the
2 definition of a form.

1 35. The device of claim 26 wherein said processing said definition (if any)
2 further comprises updating a definition record associated with a GUI
3 understanding with said definition (if any).

1 36. The device of claim 26 wherein said processing said state change (if any)
2 further comprises updating a state record associated with a GUI
3 understanding with said state change (if any).

1 37. A device having a processor and a memory coupled to the processor, the
2 memory having stored therein sequences of instructions which, when
3 executed by the processor, cause the processor to perform the acts of:

- 4 a) recognizing a dependence on a remote device; and
5 b) sending a message to said remote device, said message comprising
6 either a definition, a state change, a command or some combination
7 thereof.

1 38. The device of claim 37 wherein said command (if any) further comprises an
2 express command.

1 39. The device of claim 38 wherein said express command corresponds to a
2 clicking a mouse button.

1 40. The device of claim 38 wherein said express command corresponds to
2 hitting an enter key.

1 41. The device of claim 38 wherein said express command corresponds to
2 selecting an option from a menu.

1 42. The device of claim 37 wherein said command (if any) is an instruction
2 command.

1 43. The device of claim 42 wherein said instruction command corresponds to
2 getting a form.

1 44. The device of claim 37 wherein said state change (if any) corresponds to a
2 new value in a form.

1 45. The device of claim 37 wherein said definition (if any) corresponds to the
2 definition of a form.

1 46. The device of claim 37 further comprising updating a GUI understanding
2 by processing said definition (if any) before processing said state change (if
3 any).

1 47. The device of claim 46 wherein said processing said definition (if any)
2 further comprises updating a definition record associated with said GUI
3 understanding with said definition (if any).

1 48. The device of claim 37 wherein said processing said state change (if any)
2 further comprises updating a state record associated with said GUI
3 understanding with said state change (if any).

1 49. The device of claim 37 wherein said sequence of instructions further cause
2 the processor to implement the steps of:
3 a) receiving an acknowledgement message from said remote device,
4 said acknowledgement message comprising either a second
5 definition, a second state change, a second command or some
6 combination thereof; and
7 b) processing said second definition (if any) before said second state
8 change (if any); and
9 c) processing said second state change (if any) before processing said
10 second command (if any).

1 50. The device of claim 49 further comprising translating said definition (if
2 any), said state change (if any) and said command (if any) to a GUI.

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1 51. A machine readable medium having stored thereon sequences of
2 instructions, which when executed by a processor, cause the processor to
3 perform the acts of:
4 a) receiving a message from a remote device, said message comprising
5 either a definition, a state change, a command or some combination
6 thereof;
7 b) processing said definition (if any) before said state change (if any);
8 and
9 c) processing said state change (if any) before processing said command
10 (if any).

1 52. A machine readable medium having stored thereon sequences of
2 instructions, which when executed by a processor, cause the processor to
3 perform the acts of:
4 a) recognizing a dependence on a remote device; and
5 b) sending a message to said remote device, said message comprising
6 either a definition, a state change, a command or some combination
7 thereof.